# EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| L61 | 2 | "20050179178" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/07 11:37 |
| L62 | 0 | (10/920921).APP. | USPAT; USOCR | AND | ON | 2010/04/07 11:38 |
| L63 | 2 | "2965406".pn. | USPAT; USOCR | AND | ON | 2010/04/07 11:40 |
| L64 | 8 | ("2346546" \| "2965406" \| "3063665" \| "3287998").PN. | USPAT; USOCR | AND | ON | 2010/04/07 11:40 |
| L65 | 0 | (10/250881).APP. | USPAT; USOCR | AND | ON | 2010/04/07 11:47 |
| L67 | 16 | ("2591115" \| "3172308" \| "3230833" \| "3582226" \| "3601229" \| "3774730" \| "4061438").PN. OR ("4616738").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/07 11:50 |
| L68 | 71 | damping same vibrations same (boring same bar) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 11:55 |
| L69 | 58 | 68 @pd<"20050112" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/07 11:56 |
| L70 | 32 | damping and vibrations and (boring same bar) and actuator | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 12:27 |
| L71 | 15 | ("2711664" \| "3024031" \| "4420280" \| "4692073" \| "4710075" \| "4813810" \| "5271697" \| "5279194" \| "5398946" \| "5624214" \| "5660400" \| "5946991" \| "6379089").PN. OR ("6854367").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/07 12:37 |

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|---|---|---|---|---|---|---|
| L72 | 6573 | "188"/$.ccls. and damping | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/07 12:41 |
| L73 | 3303 | "188"/$.ccls. and damping and vibrations | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/07 12:41 |
| L75 | 1160 | 188/378-379.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 12:43 |
| L77 | 942 | 188/378-379.ccls. and vibrations | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 12:43 |
| L78 | 612 | 188/378-379.ccls. and vibrations and damping | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 12:44 |
| L79 | 689 | 188/378-379.ccls. and damping | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 12:44 |
| L80 | 147 | 188/378-379.ccls. and damping and actuator | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 12:45 |
| L81 | 23 | ("2966124" \| "3464657" \| "4458862" \| "4633982" \| "4635892" \| "4795123" \| "4796873" \| "4798006" \| "4958437").PN. OR ("5086564").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/07 12:56 |
| L82 | 36 | ("1688743" \| "4083433" \| "4470121" \| "4551849" \| "4700177" \| "4715559" \| "4751419" \| "4795123" \| "4947434" \| "5031222" \| "5235283" \| "5236186" \| "5331281" \| "5345177" \| "5370340" \| "5382134" \| "5391053").PN. OR ("5458222").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/07 13:00 |
| L83 | 524 | 74/421a.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 13:08 |
| L84 | 2 | 74/421a.ccls. and damping and actuator | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 13:08 |

| L85 | 2 | 74/424.71.ccls. and damping and actuator | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/07 13:08 |
| L86 | 1 | (10/688462).APP. | USPAT; USOCR | AND | ON | 2010/04/07 13:16 |
| L87 | 33 | ("20020074474" \| "3054284" \| "3322474" \| "3568962" \| "3693402" \| "3756672" \| "3866480" \| "4011397" \| "4105265" \| "4150588" \| "4326158" \| "4489991" \| "4628734" \| "4776541" \| "4872767" \| "4922869" \| "5056487" \| "5185543" \| "5285686" \| "5303681" \| "5348124" \| "5401009" \| "5553514" \| "5635642" \| "5864273" \| "5990645" \| "6062526" \| "6116389" \| "6394242" \| "6758312").PN. OR ("6871565").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/07 13:46 |
| S1 | 339 | 408/143.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/01 10:20 |
| S2 | 273 | 408/143.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/01 10:20 |
| S3 | 16 | ("2591115" \| "3172308" \| "3230833" \| "3582226" \| "3601229" \| "3774730" \| "4061438").PN. OR ("4616738").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/01 10:23 |
| S4 | 9 | ("20020036091" \| "20020083805" \| "3642378" \| "4553884" \| "5170103" \| "6661157" \| "6925915").PN. OR ("7234379").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2010/04/01 10:26 |
| S5 | 168 | 408/141.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/01 10:28 |

| S6 | 168 | S5 not S2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/01 10:28 |
|----|-----|-----------|---------------------------------------------------------|-----|-----|-------------------|
| S7 | 733 | (US-20070257413-$ or US-20070053758-$ or US-20060275090-$ or US-20050169715-$ or US-20030228199-$ or US-20030138303-$ or US-20030017879-$).did. or (US-7309194-$ or US-7284460-$ or US-7131797-$ or US-7037053-$ or US-7028997-$ or US-6935816-$ or US-6810733-$ or US-6557445-$ or US-6511077-$ or US-6471453-$ or US-6443673-$ or US-6345942-$ or US-6322299-$ or US-6299391-$ or US-6231274-$ or US-6189426-$ or US-6186712-$ or US-6135684-$ or US-6113319-$ or US-6076999-$ or US-6053678-$ or US-5749353-$ or US-5700116-$ or US-5611651-$ or US-5605420-$ or US-5558477-$).did. or (US-5549019-$ or US-5518347-$ or US-5478177-$ or US-5462293-$ or US-5440949-$ or US-5413318-$ or US-5407308-$ or US-5382122-$ or US-5286042-$ or US-5263995-$ or US-5249895-$ or US-5240358-$ or US-5170103-$ or US-5154554-$ or US-5148845-$ or US-5125777-$ or US- | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/01 10:32 |

5116194-$ or US-
5096345-$ or US-
5095786-$ or US-
5074723-$ or US-
5033923-$ or US-
4998851-$ or US-
4993894-$ or US-
4979851-$ or US-
4927300-$ or US-
4927299-$ or US-
4913601-$).did. or (US-
4905776-$ or US-
4865336-$ or US-
4697484-$ or US-
4661027-$ or US-
4629013-$ or US-
4626144-$ or US-
4616738-$ or US-
4553884-$ or US-
4193724-$ or US-
4162619-$ or US-
4072084-$ or US-
4061438-$ or US-
4053249-$ or US-
4047469-$ or US-
3999632-$ or US-
3971447-$ or US-
3938626-$ or US-
3923414-$ or US-
3912413-$ or US-
3872285-$ or US-
3862478-$ or US-
3859699-$ or US-
3842942-$ or US-
3838936-$ or US-
3837758-$ or US-
3831236-$ or US-
3820422-$).did. or (US-
3812755-$ or US-
3774731-$ or US-
3774730-$ or US-
3690414-$ or US-
3663116-$ or US-
3643546-$ or US-
3642378-$ or US-
3601229-$ or US-
3598498-$ or US-
3591304-$ or US-
3590472-$ or US-
3582226-$ or US-
3559512-$ or US-
3499351-$ or US-
3499350-$ or US-
3487720-$ or US-
3463048-$ or US-
3447402-$ or US-

3438289-$ or US-
3382739-$ or US-
3364800-$ or US-
3292237-$ or US-
3242791-$ or US-
3230833-$ or US-
3207014-$ or US-
3207009-$ or US-
3172308-$).did. or (US-
2922322-$ or US-
2882763-$ or US-
2879069-$ or US-
2703995-$ or US-
2699696-$ or US-
2656742-$ or US-
2641940-$ or US-
2610529-$ or US-
2606366-$ or US-
2596821-$ or US-
2591115-$ or US-
2586157-$ or US-
2563559-$ or US-
2458995-$ or US-
2426359-$ or US-
2274007-$ or US-
2236939-$ or US-
2108699-$ or US-
2051954-$ or US-
2040273-$ or US-
0700825-$ or US-
0298421-$).did. or (US-
7490536-$ or US-
7234379-$ or US-
6619165-$ or US-
5957016-$).did. or (US-
3837758-$).did. or (US-
5667204-$ or US-
4068742-$ or US-
3145623-$).did. or (US-
20090003947-$ or US-
20080298913-$ or US-
20080298912-$ or US-
20080107492-$ or US-
20080025805-$ or US-
20070089574-$ or US-
20060222468-$ or US-
20040191019-$ or US-
20040115017-$ or US-
20030170084-$ or US-
20010048856-$ or US-
20090155010-$ or US-
20080260483-$ or US-
20080080942-$ or US-
20070226985-$ or US-
20060291973-$ or US-
20050214087-$ or US-

20030147712-$ or US-
20020020243-$ or US-
20010056013-$).did. or
(US-7455487-$ or US-
7427179-$ or US-
7393164-$ or US-
7340985-$ or US-
7066693-$ or US-
7029209-$ or US-
6929431-$ or US-
6916138-$ or US-
6779955-$ or US-
6537000-$ or US-
6419427-$ or US-
6382888-$ or US-
6364581-$ or US-
6321855-$ or US-
6280126-$ or US-
6123157-$ or US-
6109842-$ or US-
6082236-$ or US-
6053508-$ or US-
6003416-$ or US-
5975816-$ or US-
5909986-$ or US-
5902078-$ or US-
5876155-$ or US-
5865575-$ or US-
5848861-$).did. or (US-
5820316-$ or US-
5810528-$ or US-
5810527-$ or US-
5788431-$ or US-
3700345-$ or US-
3287998-$ or US-
6694213-$ or US-
5027873-$ or US-
4947907-$ or US-
4815543-$).did. or (US-
6321855-$).did. or (JP-
2008100332-$ or JP-
2008100314-$ or JP-
2008100313-$ or JP-
2008100312-$ or JP-
2007290047-$ or JP-
2007054929-$ or JP-
2006312238-$ or JP-
2006102837-$ or JP-
2005329535-$ or JP-
2005329509-$ or JP-
2005305600-$ or JP-
2005279819-$ or JP-
2005199391-$ or JP-
2005186240-$ or JP-
2005177973-$ or JP-
2005118929-$ or JP-

2005074558-$ or JP-
2005066814-$ or JP-
2005066714-$ or JP-
2004358613-$ or JP-
2004283996-$ or JP-
2004202649-$ or JP-
2004202648-$ or JP-
2004066443-$ or JP-
2004066350-$ or JP-
2004009244-$).did. or (JP-
2003145322-$ or JP-
2003136301-$ or JP-
2003117751-$ or JP-
2003062735-$ or JP-
2003062704-$ or JP-
2003062703-$ or JP-
2003019607-$ or JP-
2002233911-$ or JP-
2002233903-$ or JP-
2002210602-$ or JP-
2002144114-$ or JP-
2002113603-$ or JP-
2002086313-$ or JP-
2002079405-$ or JP-
2002066855-$ or JP-
2001328022-$ or JP-
2001252808-$ or JP-
2001252802-$ or JP-
2001179510-$ or JP-
2001138162-$ or JP-
2001096403-$ or JP-
2001062612-$ or JP-
2000326169-$ or JP-
2000308941-$ or JP-
2000167737-$ or JP-
2000084783-$ or JP-
2000079533-$).did. or (JP-
2000052176-$ or JP-
11277308-$ or JP-
11207553-$ or JP-
11207502-$ or JP-
11104931-$ or JP-
11028633-$ or JP-
11010414-$ or JP-
10156614-$ or JP-
10138012-$ or JP-
10109204-$ or JP-
09300111-$ or JP-
09277106-$ or JP-
09174303-$ or JP-
09155605-$ or JP-
09108914-$ or JP-
09094727-$ or JP-
08252715-$ or JP-
08229711-$ or JP-
08215904-$ or JP-

08197310-$ or JP-
08174313-$ or JP-
08150529-$ or JP-
08118114-$ or JP-
08085007-$ or JP-
08047802-$ or JP-
07290305-$ or JP-
07285002-$).did. or (JP-
07227711-$ or JP-
06190604-$ or JP-
06179103-$ or JP-
06143009-$ or JP-
06031509-$ or JP-
06031508-$ or JP-
06031507-$ or JP-
06031506-$ or JP-
06031505-$ or JP-
06023606-$ or JP-
06023605-$ or JP-
05228707-$ or JP-
05177495-$ or JP-
05177409-$ or JP-
05116015-$ or JP-
04304907-$ or JP-
04226812-$ or JP-
03228510-$ or JP-
03221303-$ or JP-
03221302-$ or JP-
03221301-$ or JP-
03086404-$ or JP-
03049805-$ or JP-
02243212-$ or JP-
02190215-$ or JP-
02185303-$ or JP-
01274941-$).did. or (JP-
01257547-$ or JP-
63278706-$ or JP-
63180401-$ or JP-
62277205-$ or JP-
62218044-$ or JP-
61095803-$ or JP-
58160004-$ or JP-
58102615-$ or JP-
58102614-$ or JP-
58066607-$ or JP-
58051002-$ or JP-
57194805-$ or JP-
57061404-$ or JP-
56033205-$ or JP-
55031507-$ or JP-
54149095-$ or JP-
54105389-$ or JP-
54014088-$).did. or (JP-
2007290047-$ or JP-
2004283996-$ or JP-
2004202649-$ or JP-

2003334702-$ or JP-
2003062704-$ or JP-
2001179510-$ or JP-
2000308941-$ or JP-
11277308-$ or JP-
08229711-$).did. or (JP-
61084433-$).did. or JP-
2006305674-$.did. or JP-
2005199391-$.did. or JP-
2002018660-$.did. or JP-
2003334702-$.did. or JP-
10128635-$.did. or JP-
61188045-$.did. or JP-
61076251-$.did. or (JP-
01222840-$).did. or (JP-
2008307642-$ or JP-
2007210088-$ or JP-
2002154003-$ or JP-
2001239403-$).did. or (JP-
2003062758-$).did. or jp-
11179612-$.did. (DE-
19948891-$).did. or (WO-
2007091484-$ or WO-
2006078189-$ or EP-
1693131-$ or WO-
2006010093-$ or WO-
2005107982-$ or WO-
2005075134-$ or WO-
2005068118-$ or WO-
2005051582-$ or EP-
1535682-$ or WO-
2004024389-$ or EP-
1340928-$ or EP-1266710-
$ or EP-1089011-$ or DE-
19920699-$ or WO-
9964193-$ or DE-
19705108-$ or WO-
9801250-$ or EP-812641-
$ or DE-4400425-$ or DE-
4218466-$ or EP-571634-
$ or EP-519480-$ or WO-
9221463-$ or DE-
3926026-$ or DE-
3924696-$ or DE-
3922552-$).did. or (EP-
391881-$ or EP-341628-$
or DE-3633320-$ or DE-
3541322-$ or EP-90929-$
or DE-3125382-$ or GB-
2035184-$ or GB-
2027380-$).did. or (JP-
2003334702-$ or JP-
2003062704-$ or JP-
2001179510-$ or JP-
2000308941-$ or JP-
11277308-$ or JP-

08229711-$).did. or (WO-2008105664-$ or WO-2007091484-$ or JP-2007000950-$ or US-20060291973-$ or WO-2006078189-$ or CN-1788895-$ or WO-2006010093-$ or WO-2005107982-$ or KR-2005095928-$ or WO-2005075134-$ or WO-2005068118-$ or WO-2005051582-$ or US-20050109182-$ or DE-10239670-$ or SE-200201682-$ or US-20030147707-$ or EP-1266710-$ or WO-0246641-$ or WO-0214002-$ or DE-19920699-$ or DE-19825373-$ or RU-2131793-$ or RU-2131327-$ or DE-19705108-$ or DE-29809653-$ or WO-9801250-$).did. or (EP-812641-$ or RU-2078647-$ or RU-2074788-$ or DE-4400425-$ or RU-1557815-$ or RU-2014965-$ or RU-2012440-$ or RU-2011478-$ or RU-2009771-$ or RU-2009770-$ or RU-2009768-$ or RU-2009767-$ or RU-2008131-$ or RU-2005000-$ or DE-4218466-$ or RU-2000892-$ or WO-9310942-$ or SU-1816538-$ or SU-1813590-$ or SU-1804951-$ or SU-1802757-$ or SU-1796349-$ or EP-519480-$ or WO-9221463-$ or SU-1779468-$ or SU-1779466-$ or WO-9220482-$).did. or (SU-1761386-$ or SU-1759567-$ or WO-9214947-$ or SU-1750850-$ or SU-

1745412-$ or SU-
1738478-$ or SU-
1726148-$ or SU-
1726147-$ or SU-
1708532-$ or SU-
1690957-$ or SU-
1688986-$ or SU-
1669638-$ or RO-101635-
$ or SU-1648640-$ or SU-
1646692-$ or DE-
3926026-$ or DE-
3924696-$ or DE-
3922552-$ or SE-8902081-
$ or EP-391881-$ or SU-
1590203-$ or EP-341628-
$ or SU-1510984-$ or SU-
1433647-$ or DD-258755-
$ or SU-1397188-$ or DD-
256089-$).did. or (SU-
1366305-$ or SU-
1364401-$ or SU-
1360911-$ or SU-
1340921-$ or DE-
3633320-$ or SU-
1313574-$ or SU-
1284718-$ or DD-233505-
$ or SU-1196153-$ or SU-
1171240-$ or EP-90929-$
or DE-3125382-$ or SU-
984700-$ or SU-916107-$
or SU-810387-$ or SU-
795735-$ or SU-743788-$
or DE-2851160-$ or DE-
1938535-$ or SU-716714-
$ or GB-2027380-$ or SU-
664756-$ or SU-663493-$
or SU-660785-$ or SU-
660784-$ or SU-656746-$
or SU-655478-$).did. or
(SU-654353-$ or SU-
654352-$ or CH-592489-$
or SU-559779-$ or SU-
545416-$ or SU-536890-$
or SU-476941-$ or SU-
418279-$).did. or (DE-
4128451-$).did. or EP-
1563951-$.did. or WO-
2004024389-$.did. or DE-
10239670-$.did. or WO-
2006050952-$.did. or WO-
2005063437-$.did. or de-
10340697-$.did. or su-
1342604-$.did. or su-
1202896-$.did. or de-
3409581-$.did. or su-
730474-$.did. or (DE-

| | | 4218466-$ or DE-3926026-$ or DE-3924696-$ or EP-391881-$ or DE-3541322-$ or DE-3125382-$ or GB-2035184-$).did. or (WO-2005042195-$ or WO-2005028147-$).did. or (JP-3146417-$ or CN-201070679-$ or CN-201067809-$ or CN-200970636-$ or SU-1134300-$ or SU-598703-$).did. or (WO-2005042195-$ or WO-2005028147-$).did. or (JP-3146417-$ or CN-201070679-$ or CN-201067809-$ or CN-200970636-$ or SU-1134300-$ or SU-598703-$ or KR-2005029626-$ or CZ-9500447-$ or CZ-9300979-$ or RO-105666-$ or SU-1220862-$ or SU-1036463-$ or SU-994138-$ or GB-1371304-$).did. or wo-2006050952-$.did. or wo-9958292-$.did. | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| S8 | 2 | "2008298912" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/01 11:04 |
| S9 | 2 | "20080298912" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/01 11:05 |
| S10 | 3 | (US-3260136-$ or US-2051954-$).did. or (US-3164041-$).did. or (SU-1792809-$ or SU-1526920-$ or SU-1514496-$ or SU-1493389-$ or SU-1486274-$ or SU-1220857-$ or SU-1138262-$ or SU-884871-$ or SU-872046-$ or SU-975226-$ or SU-914186-$ or SU-852451-$ or SU- | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | AND | ON | 2010/04/01 11:13 |

| | | 776796-$ or SU-774821-$ or SU-751509-$ or SU-742043-$ or SU-630041-$ or SU-617176-$ or SU-605696-$ or SU-625844-$ or SU-584979-$ or SU-437332-$ or SU-500909-$ or SU-395188-$ or SU-382804-$ or DE-1938535-$).did. or (GB-1371304-$ or DD-233505-$ or SU-1148719-$ or SU-430968-$).did. | | | | |
|---|---|---|---|---|---|---|
| S11 | 33 | (US-3260136-$ or US-2051954-$).did. or (US-3164041-$).did. or (SU-1792809-$ or SU-1526920-$ or SU-1514496-$ or SU-1493389-$ or SU-1486274-$ or SU-1220857-$ or SU-1138262-$ or SU-884871-$ or SU-872046-$ or SU-975226-$ or SU-914186-$ or SU-852451-$ or SU-776796-$ or SU-774821-$ or SU-751509-$ or SU-742043-$ or SU-630041-$ or SU-617176-$ or SU-605696-$ or SU-625844-$ or SU-584979-$ or SU-437332-$ or SU-500909-$ or SU-395188-$ or SU-382804-$ or DE-1938535-$).did. or (GB-1371304-$ or DD-233505-$ or SU-1148719-$ or SU-430968-$).did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/01 11:13 |
| S12 | 27 | S7 and actuator | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/01 11:53 |
| S13 | 0 | S11 and actuator | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/04/01 11:56 |

| S14 | 86 | 188/266.7.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | AND | ON | 2010/04/01 12:02 |
| S15 | 0 | (10/250881).APP. | USPAT; USOCR | AND | ON | 2010/04/01 12:08 |

## EAST Search History (Interference)

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